



SEQUENCE LISTING

<110> Genzyme Corporation
Nicolette, Charles A.

<120> COMPOUNDS FOR THERAPY AND DIAGNOSIS AND METHODS FOR USING SAME

<130> 5028CIP

<140> US 10/017,327

<141> 2001-12-06

<150> US 09/870,216

<151> 2001-05-30

<160> 12

<170> PatentIn version 3.2

<210> 1

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 1

```
gaaagatggc gtcccgcaag gaaggtaccg gctctactgc cacctcttcc agctccaccg      60
ccggcgcagc agggaaaggc aaaggcaaag gcggctcggg agattcagcc gtgaagcaag      120
tgcagataga tggccttgtg gtattaaaga taatcaaaca ttatcaagaa gaaggacaag      180
gaactgaagt tgttcaagga gtgcttttgg gtctggttgt agaagatcgg cttgaaatta      240
ccaactgctt tcctttccct cagcacacag aggatgatgc tgactttgat gaagtccaat      300
atcagatgga aatgatgcgg agccttcgcc atgtaaacad tgatcatctt cacgtgggct      360
ggtatcagtc cacatactat ggctcattcg ttaccggggc actcctggac tctcagttta      420
gttaccagca tgccattgaa gaatctgtcg ttctcattta tgatcccata aaaactgccc      480
aaggatctct ctactaaag gcatacagac tgactcctaa actgatggaa gtttgtaaag      540
aaaaggattt ttcccctgaa gcattgaaaa aagcaaatat cacctttgag tacatgtttg      600
aagaagtgcc gattgtaatt aaaaattcac atctgatcaa tgcctaatg tgggaacttg      660
aaaagaagtc agctgttgca gataaacatg aattgctcag ccttgccagc agcaatcatt      720
tggggaagaa tctacagttg ctgatggaca gagtggatga aatgagccaa gatatagtta      780
aatacaacac atacatgagg aatactagta aacaacagca gcagaaacat cagtatcagc      840
agcgtcgcca gcaggagaat atgcagcgcc agagccgagg agaaccctcg ctccctgagg      900
aggacctgtc caaactcttc aaaccaccac agccgcctgc caggatggac tcgctgctca      960
ttgcaggcca gataaactct tactgccaga acatcaagga gttcactgcc caaaacttag     1020
gcaagctctt catggcccag gctcttcaag aatacaacaa ctaagaaaag gaagtttcca     1080
gaaaagaagt taacatgaac tcttgaagtc acaccagggc aactcttgga agaaatatat     1140
ttgcatattg aaaagcacag aggatttctt tagtgtcatt gccgattttg gctataacag     1200
tgtctttcta gccataataa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1260
aaaaaaaaaa aaaaaaaaaa
```

<210> 2
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 2

Met Ala Ser Arg Lys Glu Gly Thr Gly Ser Thr Ala Thr Ser Ser Ser
 1 5 10 15

Ser Thr Ala Gly Ala Ala Gly Lys Gly Lys Gly Lys Gly Gly Ser Gly
 20 25 30

Asp Ser Ala Val Lys Gln Val Gln Ile Asp Gly Leu Val Val Leu Lys
 35 40 45

Ile Ile Lys His Tyr Gln Glu Glu Gly Gln Gly Thr Glu Val Val Gln
 50 55 60

Gly Val Leu Leu Gly Leu Val Val Glu Asp Arg Leu Glu Ile Thr Asn
 65 70 75 80

Cys Phe Pro Phe Pro Gln His Thr Glu Asp Asp Ala Asp Phe Asp Glu
 85 90 95

Val Gln Tyr Gln Met Glu Met Met Arg Ser Leu Arg His Val Asn Ile
 100 105 110

Asp His Leu His Val Gly Trp Tyr Gln Ser Thr Tyr Tyr Gly Ser Phe
 115 120 125

Val Thr Arg Ala Leu Leu Asp Ser Gln Phe Ser Tyr Gln His Ala Ile
 130 135 140

Glu Glu Ser Val Val Leu Ile Tyr Asp Pro Ile Lys Thr Ala Gln Gly
 145 150 155 160

Ser Leu Ser Leu Lys Ala Tyr Arg Leu Thr Pro Lys Leu Met Glu Val
 165 170 175

Cys Lys Glu Lys Asp Phe Ser Pro Glu Ala Leu Lys Lys Ala Asn Ile
 180 185 190

Thr Phe Glu Tyr Met Phe Glu Glu Val Pro Ile Val Ile Lys Asn Ser
 195 200 205

His Leu Ile Asn Val Leu Met Trp Glu Leu Glu Lys Lys Ser Ala Val
 210 215 220

Ala Asp Lys His Glu Leu Leu Ser Leu Ala Ser Ser Asn His Leu Gly
 225 230 235 240

Lys Asn Leu Gln Leu Leu Met Asp Arg Val Asp Glu Met Ser Gln Asp
 Page 2

245

250

255

Ile Val Lys Tyr Asn Thr Tyr Met Arg Asn Thr Ser Lys Gln Gln Gln
 260 265 270

Gln Lys His Gln Tyr Gln Gln Arg Arg Gln Gln Glu Asn Met Gln Arg
 275 280 285

Gln Ser Arg Gly Glu Pro Pro Leu Pro Glu Glu Asp Leu Ser Lys Leu
 290 295 300

Phe Lys Pro Pro Gln Pro Pro Ala Arg Met Asp Ser Leu Leu Ile Ala
 305 310 315 320

Gly Gln Ile Asn Thr Tyr Cys Gln Asn Ile Lys Glu Phe Thr Ala Gln
 325 330 335

Asn Leu Gly Lys Leu Phe Met Ala Gln Ala Leu Gln Glu Tyr Asn Asn
 340 345 350

<210> 3
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Compound 1

<400> 3

Phe Leu Gln Leu Leu Met Glu Pro Val
 1 5

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> Compound 1

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n = A,T,C, or G

<400> 4
 ttyytncarn tnnatnatgga rccngtn

27

<210> 5
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Compound 2

<400> 5

Phe Leu Gln Leu Glu Phe Asp Ala Val
 1 5

<210> 6
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> Compound 2

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n = A,T,C, or G

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n = A,T,C, or G

<400> 6

ttyytncarn tngarttyga ygcngtn

27

<210> 7
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Compound 3

<400> 7

Phe Leu Trp Phe Glu Ile Asp Ile Val
1 5

<210> 8
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Compound 3

<220>
<221> misc_feature
<222> (6)..(6)
<223> n = A,T,C, or G

<220>
<221> misc_feature
<222> (27)..(27)
<223> n = A,T,C, or G

<400> 8
ttyytntggt tygarathga yathgtn

27

<210> 9
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Compound 4

<400> 9

Phe Leu Ser Tyr Asp Leu Phe Val Val
1 5

<210> 10
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Compound 4

<220>
<221> misc_feature
<222> (6)..(6)
<223> n = A,T,C, or G

<220>

<221> misc_feature
<222> (9)..(9)
<223> n = A,T,C, or G

<220>
<221> misc_feature
<222> (18)..(18)
<223> n = A,T,C, or G

<220>
<221> misc_feature
<222> (24)..(24)
<223> n = A,T,C, or G

<220>
<221> misc_feature
<222> (27)..(27)
<223> n = A,T,C, or G

<400> 10
ttyytnwsnt aygayytntt ygtngtn

27

<210> 11
<211> 9
<212> PRT
<213> Homo sapiens

<400> 11
Asn Leu Gln Leu Leu Met Asp Arg Val
1 5

<210> 12
<211> 27
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)..(24)
<223> n = A,T,C, or G

<220>
<221> misc_feature
<222> (27)..(27)
<223> n = A,T,C, or G

<400> 12
aayythcary thythatgga ymgngtn

27